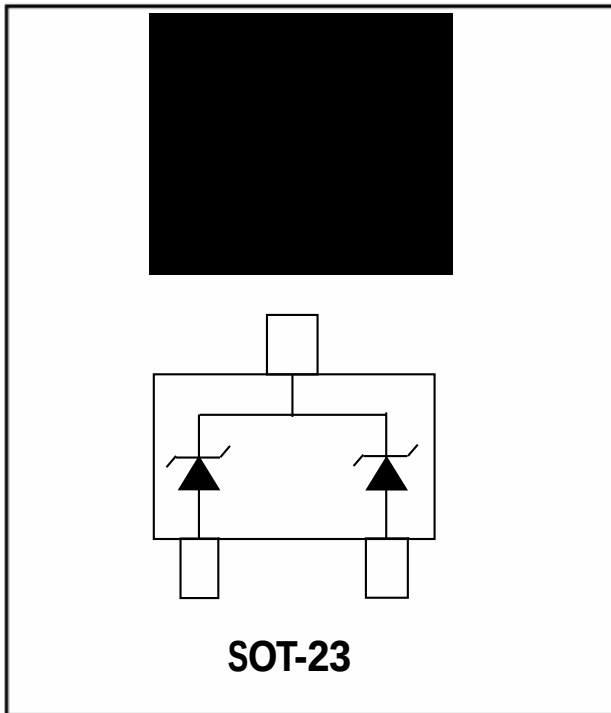
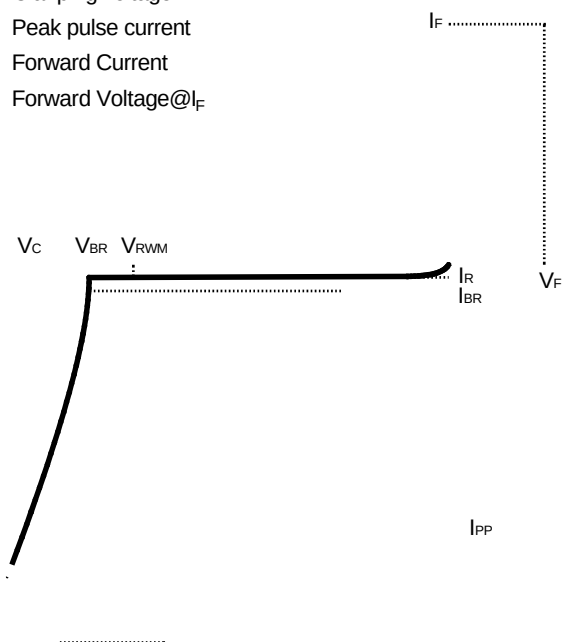




- Reverse stand-off voltage
- $I_R$  Reverse leakage current
- $V_{BR}$  Reverse breakdown voltage
- $V_C$  Clamping voltage
- $I_{PP}$  Peak pulse current
- $I_F$  Forward Current
- $V_F$  Forward Voltage@ $I_F$





# ESD2402ETQ

## ■Maximum Ratings

| PARAMETER                                       | SYMBOL    | LIMITS   | UNIT |
|-------------------------------------------------|-----------|----------|------|
| Peak pulse power ( $t_p = 8/20\mu s$ )          | $P_{pk}$  | 300      | W    |
| ESD according to IEC61000-4-2 air discharge     | $V_{ESD}$ | $\pm 30$ | KV   |
| ESD according to IEC61000-4-2 contact discharge |           | $\pm 30$ |      |
| Junction temperature                            | $T_J$     | -55~150  | -    |
| Storage temperature                             | $T_{STG}$ | -55~150  | -    |

Notes:

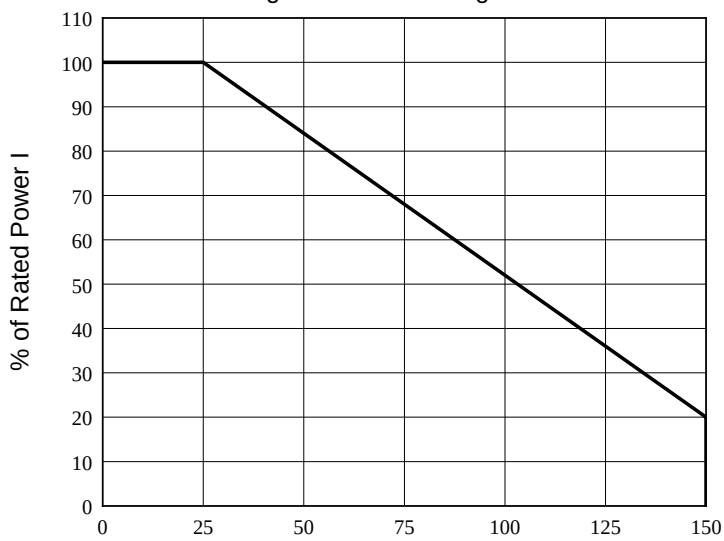
CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the component. This is a stress only rating and operation of the component at these or any other conditions above those indicated in the operational sections of this specification is not implied.

## ■Electrical Characteristics $T_J=25$

| PARAMETER                        | Symbol    | UNIT     | Conditions                       | Min  | Typ  | Max |
|----------------------------------|-----------|----------|----------------------------------|------|------|-----|
| Reverse Standoff Voltage         | $V_{RWM}$ | V        | $I_R \leq 1\mu A$                |      |      | 24  |
| Reverse breakdown voltage        | $V_{BR}$  | V        | $I_{BR} = 1mA$                   | 26.7 |      | 30  |
| Reverse leakage current          | $I_R$     | $\mu A$  | $V_{RWM} = 24V$                  |      |      | 1.0 |
| Forward Voltage                  | $V_F$     | V        | $I_F = 10mA$                     |      |      | 1.1 |
| Clamping voltage <sup>1)</sup>   | $V_C$     | V        | $I_{PP} = 1A, t_p = 8/20\mu s$   |      |      | 32  |
|                                  |           |          | $I_{PP} = 5A, t_p = 8/20\mu s$   |      |      | 42  |
|                                  |           |          | $I_{PP} = 7A, t_p = 8/20\mu s$   |      |      | 44  |
| Dynamic resistance <sup>2)</sup> | $R_{DYN}$ | $\Omega$ | TLP, $t_p=100ns$ , I/O to Ground |      | 0.36 |     |
| Peak Pulse Current               | $I_{PP}$  | A        | $t_p = 8/20\mu s$                |      |      | 7   |



Fig.3: Power Derating Curve





## ■ Outline Dimensions

## ■ Marking Information

24C.

Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black



## Disclaimer

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